

## Advanced Wireless Communications Intern [IDA: 00044]

### Náplň práce

The intern will support research activities at the intersection of AI/ML and advanced wireless communication systems, with a particular focus on AI-native air interfaces for 6G or Reconfigurable Intelligent Surfaces (RISs). While AI/ML techniques are already being studied in 3GPP for physical layer enhancements (e.g., beam management, positioning, CSI), 6G envisions an air interface where AI is deeply integrated into the transceiver chain. This internship will investigate AI-driven approaches for online adaptability, RIS-assisted connectivity, and autonomous channel estimation, targeting applications such as vehicular communications.

### Profil kandidáta

#### Wireless Communication Fundamentals:

1. Basic understanding of digital communications (concepts like signals, noise, and bandwidth).
2. Interest in learning about OFDM, modulation, coding, and MIMO (prior coursework is helpful but not required).

#### Software & Tools:

1. Exposure to MATLAB/Simulink.
2. Basic Python programming skills (NumPy/SciPy; familiarity with AI/ML frameworks like TensorFlow or PyTorch is a plus, but not mandatory).
3. Curiosity about simulation platforms such as ns-3 / LENA (optional).

#### Additional Competencies:

1. Willingness to tackle analytical and problem-solving tasks with guidance.
2. Ability to read and summarize technical content (standards or papers) at a high level.

### Čo ponúkame

All your information will be kept confidential according to EEO guidelines.

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### O nás



ID pozície  
**REF3319V**

Pracovná oblasť  
**Strojárstvo**

Právnická osoba  
**Continental Automotive  
Singapore Pte. Ltd.**

AUMOVIO SE was founded in 2025 as a spin-off of Continental AG. The technology and electronics company offers a wide-ranging portfolio that makes mobility safe, exciting, connected, and autonomous. This includes sensor solutions, displays, braking and comfort systems as well as comprehensive expertise in software, architecture platforms, and assistance systems for software-defined vehicles. AUMOVIO SE generated sales of EUR 19.6 billion in the fiscal year 2024 and employs around 93,000 staff in more than 100 locations globally. The company is headquartered in Frankfurt, Germany.